

Jarrell, Noble

180897

From: Ramirez, Delia  
Sent: Tuesday, February 28, 2006 4:44 PM  
To: Jarrell, Noble  
Subject: 10/602219

Hi,

I would like to request the following alignments:

1. SEQ ID NO:11 against SEQ ID NO:1 of 07/602824
2. SEQ ID NO:11 against EMBL accession number X05790 GI 28535
3. SEQ ID NO:12 against SEQ ID NO:1 of 07/602824
4. SEQ ID NO:12 against EMBL accession number X05790 GI 28535

Thank you very much,

---

Delia M. Ramirez, Ph.D.  
Patent Examiner  
Recombinant Enzymes-Art Unit 1652  
USPTO  
400 Dulany Street, Remsen Bldg., 2D74, Mail room 2C70  
Alexandria, VA 22314  
(571) 272-0938  
delia.ramirez@uspto.gov

Noble  
Fin 3/1/06  
10 ONL  
SPR  
1 AA 6CG  
3 NA IG

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; Sequence 1, Application US/07602824A  
; Patent No. 5356804  
; GENERAL INFORMATION:  
; APPLICANT: Desnick, Robert J.  
; APPLICANT: Bishop, David P.  
; APPLICANT: Ioannou, Yiannis A.  
; TITLE OF INVENTION: CLONING AND EXPRESSION OF BIOLOGICALLY  
; TITLE OF INVENTION: ACTIVE alpha-GALACTOSIDASE A  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: PENNIE & EDMONDS  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07602,824A  
; FILING DATE: 24-OCT-1990  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Coruzzi, Laura A.  
; REGISTRATION NUMBER: 30,742  
; REFERENCE/DOCKET NUMBER: 6923-005  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-8864/9741  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 1:  
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; STRANDEDNESS: double  
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ACCESSION X05790
VERSION X05790.1 GI:28535
KEYWORDS alpha-galactosidase; galactosidase; glycoprotein; signal peptide.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1319)
AUTHORS Tsuji,S., Martin,B.M., Kaslow,D.C., Migeon,B.R., Choudary,P.V.,
Stubbs, E.I., Mayot,J.A., Murray,G.J., Barranger,J.A., and
Ginns,E.I.
TITLE Signal sequence and DNA-mediated expression of human lysosomal
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JOURNAL Eur. J. Biochem. 165 (2), 275-280 (1987)
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GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

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(without alignments)  
2.284 Million cell updates/sec

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Maximum DB seq length: 2000000000

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Maximum Match 100%

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and is derived by analysis of the total score distribution.

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LOCUS Human mRNA for alpha-galactosidase A (EC 3.2.1.22).  
DEFINITION X05790  
ACCESSION X05790.1 GI:28535  
VERSION alpha-galactosidase; galactosidase; glycoprotein; signal peptide.  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 1319)  
AUTHORS Tsuji,S., Martin,B.M., Kaslow,D.C., Migeon,B.R., Choudary,P.V.,

Stubblefield,B.K., Mayor,J.A., Murray,G.J., Barranger,J.A. and  
Gins,B.I.  
Signal sequence and DNA-mediated expression of human lysosomal  
alpha-galactosidase A  
Eur. J. Biochem. 165 (2), 275-280 (1987)  
JOURNAL MEDLINE  
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RESULT 2

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/ Patent No. 5356804
/ GENERAL INFORMATION:
/ APPLICANT: Desnick, Robert J.
/ APPLICANT: Bishop, David F.
/ APPLICANT: Ioannou, Yiannis A.
/ TITLE OF INVENTION: CLONING AND EXPRESSION OF BIOLOGICALLY
/ TITLE OF INVENTION: ACTIVE alpha-GALACTOSIDASE A
/ NUMBER OF SEQUENCES: 13
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: PENNIE & EDMONDS
/ STREET: 1155 Avenue of the Americas
/ CITY: New York
/ STATE: New York
/ COUNTRY: U.S.A.
/ ZIP: 10036
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/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/07/602,824A
/ FILING DATE: 24-OCT-1990
/ CLASSIFICATION: 435
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Coruzzi, Laura A.
/ REGISTRATION NUMBER: 30,742
/ REFERENCE/DOCKET NUMBER: 6923-005
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (212) 790-9090
/ TELEFAX: (212) 869-8864/9741
/ TELEX: 66141 PENNIE
/ INFORMATION FOR SEQ ID NO: 1:
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GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

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(without alignments)  
3.433 Million cell updates/sec

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Searched: 2 seqs, 2712 residues

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Maximum Match 100%

Listing first 2 summaries

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2: /home/njarrell/ram219/x05790.gb\_pr.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1261.8	99.7	1319	2 HSAGALAR	ACCESSION:X05790
2	1261.8	99.7	1393	1 US-07-602-824A-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1  
HSAGALAR  
LOCUS HSAGALAR 1319 bp mRNA linear PRI 30-MAR-1995  
DEFINITION Human mRNA for alpha-galactosidase A (EC 3.2.1.22).  
ACCESSION X05790  
KEYWORDS alpha-galactosidase; galactosidase; glycoprotein; signal peptide.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 1319)  
AUTHORS Tsuji.S., Martin.B.M., Kaslow.D.C., Migeon.B.R., Choudary.P.V., Stubblefield.B.K., Mayor.J.A., Murray.G.J., Barranger.J.A. and Gins.E.I.  
TITLE Signal sequence and DNA-mediated expression of human lysosomal alpha-galactosidase A  
JOURNAL Eur. J. Biochem. 165 (2), 275-280 (1987)  
MEDLINE 87246603  
PUBMED 3036505  
FEATURES Location/Qualifiers  
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/organism="Homo sapiens"  
/mol\_type="mRNA"

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## RESULT 2

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; Sequence 1, Application US/07602824A
; Patent No. 5356804
; GENERAL INFORMATION:
; APPLICANT: Desnick, Robert J.
; APPLICANT: Bishop, David F.
; APPLICANT: Ioannou, Yiannis A.
; TITLE OF INVENTION: CLONING AND EXPRESSION OF BIOLOGICALLY
; TITLE OF INVENTION: ACTIVE alpha-GALACTOSIDASE A
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESS: PENNIE & EDMONDS
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/602,824A
; FILING DATE: 24-OCT-1990
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 6923-005
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1393 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 61..1350
; US-07-602-824A-1
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Query Match 99.7%; Score 1261.8; DB 1; Length 1393;

Best Local Similarity 99.8%; Pred. No. 0;

Matches 1263; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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